

CLAIMS

What is claimed is:

- 1 1. A method for partial page regeneration of a transmitted page by a server, said  
2 method comprising:  
3 receiving page generation code that generates a page;  
4 transmitting said page to a client for display;  
5 associating a portion of said transmitted page with a code fragment of said page  
6 generation code; and  
7 executing said associated code fragment of said code to regenerate said portion of  
8 said transmitted page.
- 1 2. The method of claim 1 further comprising transmitting said regenerated page  
2 portion to said client for incorporation into said transmitted page.
- 1 3. The method of claim 1 further comprising manipulating execution of said page  
2 generation code to enable selective execution of said associated code fragment.
- 1 4. The method of claim 3 wherein the step of manipulating further comprises  
2 intercepting communication between said associated code fragment and other parts of  
3 said code to enable execution of less than said entire page generation code.
- 1 5. The method of claim 3 wherein the step of manipulating further comprises adding  
2 additional code to operate with said page generation code to enable selective execution of  
3 said associated code fragment.

1 6. The method of claim 1 wherein the step of associating further comprises:  
2 executing a code fragment of said page generation code to generate an output; and  
3 identifying with an identification tag said generated output of said executed code  
4 fragment to identify which portion of said transmitted page is created by said executed  
5 code fragment.

1 7. The method of claim 6 wherein the step of identifying further comprises inserting  
2 said identification tag at the beginning and the ending of said generated output.

1 8. The method of claim 1 wherein said code is formatted as a servlet.

1 9. The method of claim 1 wherein said page is formatted as a Hypertext Markup  
2 Language (HTML) page.

1 10. A server for partial page regeneration of a transmitted page, said server  
2 comprising:

3 a transceiver in communication with a client; and  
4 a partial page regenerator in communication with said transceiver.

1 11. The server of claim 10 further comprising an external page code source in  
2 communication with said partial page regenerator.

1 12. A server for partial page regeneration of a transmitted page, said server  
2 comprising:

3 a transceiver in communication with a client, said transceiver transmitting said  
4 page to said client for display; and

5 a partial page regenerator in communication with said transceiver and an external  
6 page code source, said partial page regenerator receiving page generation code that  
7 generates said page from said external page code source, associating a portion of said  
8 page with a code fragment of said page generation code and executing said associated  
9 code fragment of said code to regenerate said portion of said transmitted page.

1 13. The server of claim 12 wherein said external page code source is located on said  
2 server.

1 14. The server of claim 12 wherein said partial page regenerator is further configured  
2 to send said regenerated portion to said transceiver for transmission to said client.

1 15. The server of claim 12 wherein said partial page regenerator is further configured  
2 to manipulate execution of said page generation code to enable selective execution of  
3 said associated code fragment.

1 16. The server of claim 15 wherein said partial page regenerator is further configured  
2 to intercept communication between said associated code fragment and other parts of said  
3 code to enable execution of less than said entire page generation code.

1 17. The server of claim 15 wherein said partial page regenerator is further configured  
2 to add additional code to operate with said page generation code to enable selective  
3 execution of said associated code fragment.

1 18. The server of claim 12 wherein said partial page regenerator is further configured  
2 to execute said code fragment to generate an output and insert an identification tag at

3 beginning and ending of said generated output of said executed code fragment to identify  
4 which portion of said transmitted page is created by said executed code fragment.

1 19. The server of claim 18 wherein said partial page regenerator is further configured  
2 to store a relationship between said portion of said page and said code fragment of said  
3 code that generates said portion.

1 20. A system for partial page regeneration of a transmitted page, said system  
2 comprising:

3 an external page code source;

4 a client comprising:

5 a client transceiver; and

6 a server comprising:

7 a server transceiver in communication with said client transceiver; and

8 a partial page regenerator in communication with said server transceiver

9 and said external page code source.

1 21. The system of claim 20 wherein said external page code source is located on said  
2 server.

1 22. A system for partial page regeneration of a transmitted page, said system  
2 comprising:

3 an external page code source;

4 a client comprising:

5 a client transceiver, said client transceiver receiving said page; and

6 a server comprising:

7 a server transceiver in communication with said client, said server

8 transceiver transmitting said page to said client for display; and

9 a partial page regenerator in communication with said server transceiver

10 and said external page code source, said partial page regenerator receiving from

11 said external page code source page generation code that generates said page,

12 associating a portion of said page with a code fragment of said page generation

13 code and executing said associated code fragment of said code to regenerate said

14 portion of said transmitted page.

1 23. The system of claim 22 wherein said external page code source is located on said  
2 server.

1 24. The system of claim 23 wherein said partial page regenerator is further configured  
2 to send said regenerated portion to said server transceiver for transmission to said client.

1 25. The system of claim 23 wherein said partial page regenerator is further configured  
2 to manipulate execution of said page generation code to enable selective execution of  
3 said associated code fragment.

1 26. The system of claim 26 wherein said partial page regenerator is further configured  
2 to intercept communication between said associated code fragment and other parts of said  
3 code to enable execution of less than said entire page generation code.

1     29.     The system of claim 29 wherein said partial page regenerator is further configured  
2     to store a relationship between said portion of said page and said code fragment of said  
3     code that generates said portion.